

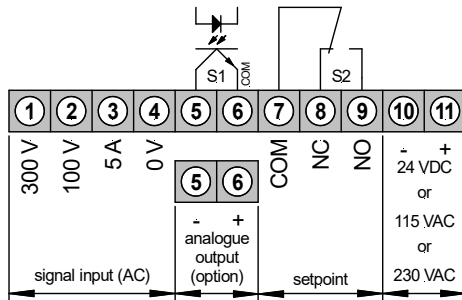
PVE – 4-digit digital panel meter in 72x36 mm (BxH) Alternating voltage / alternating current signals 100V, 300V, 5A, 1A

- potential-isolated
- 2 free scalable setpoints/hysteresis
- analog output galvanic insulated
- min/max memory



ORDER NUMBER **EUR**
(without options)

• Alternating voltage, alternating current



Power supply 230 VAC	Standard	PVE 4.004.6522C	296.50
	True effective value RMS	PVE 4.104.6522C	328.30
Power supply 24 VDC (galv. isolated)	Standard	PVE 4.004.6722C	317.70
	True effective value RMS	PVE 4.104.6722C	349.50

• Order key options

P	V	E	4.	0	0	4.	6	5	2	2	C
P	V	E	4.	1	0	4.	6	5	2	2	C
P	V	E	4.	0	0	4.	6	7	2	2	C
P	V	E	4.	1	0	4.	6	7	2	2	C

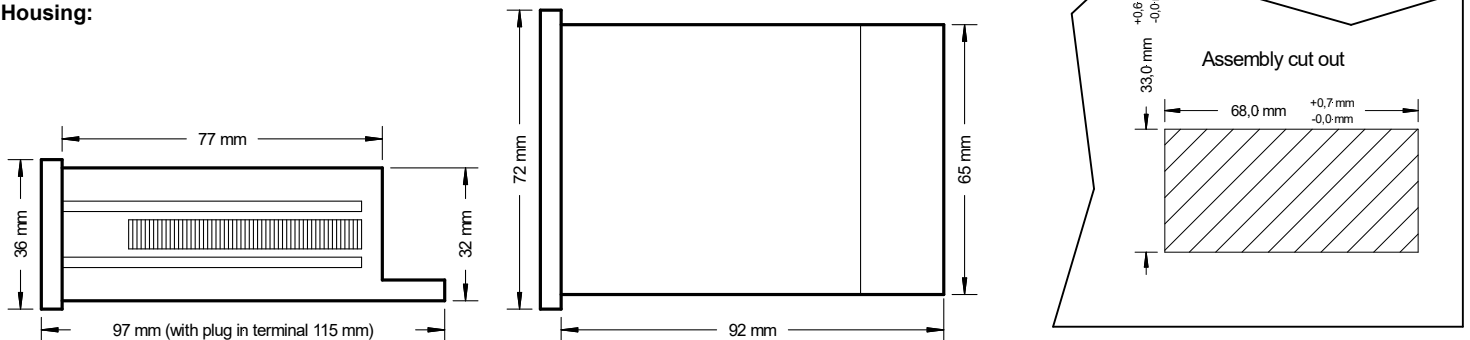
S108	Measuring input 1A, 5A not applicable	
1	Protection class IP65 at the front	12.50
4	Protection class IP54 at the front	7.50
7	Protection class IP65 at the front and plug-in terminal	23.70
8	plug-in terminal	11.20
9	Protection class IP54 at the front and plug-in terminal	18.70
4	Voltage supply 115 VAC	10.90
	Switching point S1 is not applicable with analog output!	
1	Analog output 0-10 VDC at 230 VAC / 115 VAC	74.80
	Analog output 0-10 VDC at 24 VDC	118.30
2	Analog output 0-20 mA at 230 VAC / 115 VAC	80.90
	Analog output 0-20 mA at 24 VDC	124.50
3	Analog output 4-20 mA at 230 VAC / 115 VAC	80.90
	Analog output 4-20 mA at 24 VDC	124.5

Please state physical unit on demand, e.g. A.

• Technical data

Dimensions	Housing	W 72 x H 36 x XD 97 mm, including screw terminal
	Assembly cut out	68.0 ^{+0.7} x 33.0 ^{+0.6} mm
	Fastening	latchable quick plastic clamp proper to fix in wall thickness up to 50 mm
	Housing material	PC/ABS-plastic blend, colour black, UL94V-0
	Protective system	at the front IP40 connection IP00
	Weight	approx. 0.190 kg
	Connection	at the rear via terminals up to 2.5 mm ²
Input	Measuring range	100 V, 300 V, 5 A – optional 0-2 V, 20 V, 1 A All ranges selectable via connection terminal.
	Input resistance	R _i with 100 V = ~1 MΩ 300 V = ~4 MΩ 1 A = ~276 MΩ
Output	Relay outputs (Switching cycle)	change-over contact 240 VAC/0.25 A – 24 VDC/1 A, at ohm resistive burden 2 * 10 ⁵ at max. contact rate 10 * 10 ⁶ mechanically
	Open Collector	Supply by customers (U _B = 5-35 V / I _{max} = 100 mA with U _{CE sat})
	Analog output	0-10 VDC (12 bit) 0-20 mA (12 bit) burden max. 500 Ω 4-20 mA (12 bit) burden max. 500 Ω The analog output is galvanic isolated from the measuring input!
Accuracy	Resolution	-999...9999 Digit
	Temp. coefficient	I ~ 200 ppm/K / U ~ 100 ppm/K
	Measuring principle	voltage/frequency converter
	Frequency range	nominal precision 40 Hz to 100 Hz Standard / 40 Hz to 1000 Hz True RMS-value
PVE4.0x4.6xx2B	Measuring error	Voltage range: ±1.0% of final value, ±1 digit 0-1 A range: ±1.0% of final value, ±1 digit 1-5 A range: ±1.0% of final value, ±1 digit
	Measuring principle (input)	via precision rectifier = rms-value only with sinusoidal signal
PVE4.1x4.6xx2B	Measuring error	Voltage range: ±0.7% of final value, ±1 digit, crest factor 3 0-1 A range: ±0.7% of final value, ±1 digit, crest factor 3 1-5 A range: ±0.7% of final value, ±1 digit, crest factor 3
	Measuring principle (input)	rms-value
Power unit	Supply voltage	230/115 VAC ±10% (50-60 Hz), 24 VDC ±10%, galvanic isolated
	Power consumption	approx. 3 VA
Indication	Display	LED with 7 segments, 14 mm high, red 4-digit = indication 9999
	Overflow	indication of 4 horizontal bars
	Indication time	from 0.1 up to 10 seconds adjustable
Ambient conditions	Working temperature	0°C up to +60°C
	Storing temperature	-20°C up to +80°C

Housing:



CE-sign:

For unlimited use of the device according to directive 2014/30/EU for the „electromagnetic compatibility“, analog input lines need to be laid screened. The screen needs to be applied one-sided!

• Ordering code

	P	V	E	4.	0	0	4.	6	5	2	2	C	
Basic model													Version
													<input type="checkbox"/> C Version C
Voltage metering		<input type="checkbox"/> V											Switching points (standard)
													<input type="checkbox"/> 1 1 relay output
Internal index			<input type="checkbox"/> E										<input type="checkbox"/> 2 1 relay output and 1 open collector output
Number of digits 4 digits				<input type="checkbox"/> 4									Mechanical options
													<input type="checkbox"/> 1 Foil keyboard, protection IP65
Sensor supply no sensor supply					<input type="checkbox"/> 0								<input type="checkbox"/> 2 Foil keyboard, protection IP40
													<input type="checkbox"/> 4 Foil keyboard, protection IP54
Alternating voltage, current Standard					<input type="checkbox"/> 0								<input type="checkbox"/> 7 Plug-in terminal, foil keyboard, IP65
True effective RMS					<input type="checkbox"/> 1								<input type="checkbox"/> 8 Plug-in terminal, foil keyboard, IP40
													<input type="checkbox"/> 9 Plug-in terminal, foil keyboard, IP54
Outputs no outputs					<input type="checkbox"/> 0								Power supply
0-10 V					<input type="checkbox"/> 1								<input type="checkbox"/> 4 115 VAC
0-20 mA					<input type="checkbox"/> 2								<input type="checkbox"/> 5 230 VAC
4-20 mA					<input type="checkbox"/> 3								<input type="checkbox"/> 7 24 VDC (galvanic isolated)
													Size of housing
													<input type="checkbox"/> 6 72x36 mm (BxD)
													Measuring input
													<input type="checkbox"/> 4 Alternating voltage, alternating current